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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/064,375	07/08/2002	John A. Fifield	BUR920010181	4010
24241	7590	10/16/2003	EXAMINER	
IBM MICROELECTRONICS INTELLECTUAL PROPERTY LAW 1000 RIVER STREET 972 E ESSEX JUNCTION, VT 05452			KANG, DONGHEE	
		ART UNIT	PAPER NUMBER	
		2811		
DATE MAILED: 10/16/2003				

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	10/064,375	FIFIELD ET AL.
Examiner	Art Unit	
Donghee Kang	2811	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 08 August 2003.

2a) This action is FINAL. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-17 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) 7,13 and 15 is/are allowed.

6) Claim(s) 1-6, 8-12,14 and 16-17 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

11) The proposed drawing correction filed on _____ is: a) approved b) disapproved by the Examiner.

If approved, corrected drawings are required in reply to this Office action.

12) The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:

1. Certified copies of the priority documents have been received.

2. Certified copies of the priority documents have been received in Application No. _____.

3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).

a) The translation of the foreign language provisional application has been received.

15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s). _____.

2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) Notice of Informal Patent Application (PTO-152)

3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____.

6) Other: _____.

DETAILED ACTION

Remarks

1. Applicant's Amendment and response to Paper No.5 have been entered and made of Record. Claims 18-29 have been cancelled. Thus claims 1-17 are pending in this application.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

3. Claims 1-6, 8-12, 14 & 16-17 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Re claims 1 & 2: the phrase "wherein said second insulator thickness is greater than the first insulator and said second insulator having a second value of said given parameter that is different from said first value" is unclear. The disclosure describes only second insulator having a second value of said given parameter which is selected from the group consisting of density, thickness and insulative value but not together. There is no support for the second insulator having a different parameter including together thickness and density or insulative value.

Claims 3-6 & 8-9 are rejected because each includes the limitations of independent claim 1.

Re claim 10: the phrase "a first device having a diode.." is not supported by disclosure. The disclosure only describes the first device having antifuse.

Claims 11-12, 14, & 16 are rejected because each includes the limitations of independent claim 10.

Re claim 17: the phrase "a first integrated circuit element comprising a diode.." is not supported by disclosure. The disclosure only describes the first integrated circuit element comprising an antifuse.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Chen et al. (US 5,656,534).

Chen et al. teach a programmable element, comprising (Fig.3):

a first device (10) on a substrate (18) having a first electrode (36') and a first insulator (28) disposed between the substrate and said first electrode, said first insulator having a first value of a given parameter; a second device (12) on a substrate (18) having a second electrode (36'') and a second insulator (26) disposed between the

substrate and said second electrode, said second insulator having a thickness which is greater than the first insulator (Col.3, lines 60-65); wherein said first and second electrodes of said first and second devices are coupled to one another on a conductive layer; and a source of programming energy coupled to said first device and causing it to permanently decreased in resistivity, wherein a programmed state of said first device is indicated by a conductive state of said second device.

Allowable Subject Matter

6. Claims 7, 13 & 15 are allowed.
7. Claims 10-12, 14, 16 & 17 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, first paragraph, set forth in this Office action.

The following is a statement of reasons for the indication of allowable subject matter: Chen et al. do not teach the first electrode comprising a plurality of separate conductive lines, said plurality of separate conductive lines overlaying said diffusion region, wherein the first device comprising a diode and the second device comprising an FET and

wherein the first device comprises a diffused electrode that is coupled to a source of programming energy.

Response to Arguments

8. Applicant's arguments filed August 8, 2003 have been fully considered but they are not persuasive. Applicant argues that a structure of Chen is different with present invention.

In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., 16 B, gain device) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

Conclusion

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Donghee Kang whose telephone number is 703-305-9147. The examiner can normally be reached on Maxiflex.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie C Lee can be reached on 703-308-1690. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.



Donghee Kang
Examiner
Art Unit 2811

dhk